Patent Claims

1. Microscope, in particular confocal microscope, characterized by an optical arrangement (2) for image rotation, said optical arrangement being provided in the beam path (1) of the microscope.

2. Microscope according to Claim 1, characterized in that the optical arrangement (2) for image rotation is a prism.

3. Microscope according to Claim 2, characterized in that the prism is designed as a Dove prism.

4. Microscope according to Claim 2, characterized in that the prism is designed as an Abbe prism.

5. Microscope according to Claim 1, characterized in that the optical arrangement (2) for image rotation is a mirror arrangement.

6. Microscope according to Claim 5, characterized in that the mirror arrangement is an arrangement with an odd number of mirrors.

7. Microscope according to Claim 5 or 6, characterized in that the mirror arrangement is designed as a "K" mirror.

8. Microscope according to one of Claims 1 to 7, characterized in that the optical arrangement (2) for image rotation is arranged in the parallel beam path (1) of the microscope.

9. Microscope according to Claim 8, characterized in that the optical arrangement (2) for image rotation is arranged between tube lens (6) and objective (4).

10. Microscope according to Claim 8, **characterized in that** the optical arrangement (2) for image rotation is arranged downstream of the eyepiece (3) and/or the tube lens (6).

11. Microscope according to one of Claims 1 to 10, **characterized in that** the optical arrangement (2) for image rotation serves for rotating all the scanned and video images fed into the microscope by a laser scanner (7).

12. Microscope according Claims 11, **characterized in that** the optical arrangement (2) for image rotation is arranged between a scanning lens (8) and a scanning mirror (9) of the laser scanner (7).

13. Microscope according to Claim 11 or 12, **characterized in that** the laser scanner (7) comprises stationary beam splitters which are sufficiently thick or sufficiently wedge-shaped for the purpose of avoiding interference.

14. Microscope according to one of Claims 1 to 13, **characterized in that** an adjusting apparatus is provided for the purpose of minimizing the beam offset during rotation.

15. Microscope according to one of Claims 1 to 14, **characterized in that** provision is made of an axially moveable objective and/or an axially moveable objective turret for taking z-sections in arbitrarily oriented directions.

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